

**WETLAND DETERMINATION DATA FORM - North Central and Northeast Region**

Project/Site: I3\_mainline City/County: Clearwater Sampling Date: 2017-06-19

Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-146n37w12-a1

Investigator(s): DPT, MRG Section, Township, Range: S12, T146N, R37W

Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VV Slope (%): 3-7%

Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 47.4770826800... Longitude: -95.29774468... Datum: NAD83

Soil Map Unit Name: 40C NWI Classification: PSS1C

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

|                                 |           |   |
|---------------------------------|-----------|---|
| Hydrophytic Vegetation Present? | <u>No</u> | <b>Is the Sampled Area within a Wetland?</b><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present?            | <u>No</u> |   |
| Wetland Hydrology Present?      | <u>No</u> |   |

Remarks: (Explain alternative procedures here or in a separate report.)  
UPLAND

**HYDROLOGY**

| Wetland Hydrology Indicators:                            | Secondary Indicators (minimum of two required)          |
|--|---|
| <u>      </u> Surface Water (A1)                         | <u>      </u> Surface Soil Cracks (B6)                  |
| <u>      </u> High Water Table (A2)                      | <u>      </u> Drainage Patterns (B10)                   |
| <u>      </u> Saturation (A3)                            | <u>      </u> Moss Trim Lines (B16)                     |
| <u>      </u> Water Marks (B1)                           | <u>      </u> Dry-Season Water Table (C2)               |
| <u>      </u> Sediment Deposits (B2)                     | <u>      </u> Crayfish Burrows (C8)                     |
| <u>      </u> Drift Deposits (B3)                        | <u>      </u> Saturation Visible on Aerial Imagery (C9) |
| <u>      </u> Algal Mat or Crust (B4)                    | <u>      </u> Stunted/Stressed Plants (D1)              |
| <u>      </u> Iron Deposits (B5)                         | <u>      </u> Geomorphic Position (D2)                  |
| <u>      </u> Inundation Visible on Aerial Imagery (B7)  | <u>      </u> Shallow Aquitard (D3)                     |
| <u>      </u> Sparsely Vegetated Concave Surface (B8)    | <u>      </u> Microtopographic Relief (D4)              |
| <u>      </u> Water-Stained Leaves (B9)                  | <u>      </u> FAC-Neutral Test (D5)                     |
| <u>      </u> Aquatic Fauna (B13)                        |   |
| <u>      </u> Marl Deposits (B15)                        |   |
| <u>      </u> Hydrogen Sulfide Odor (C1)                 |   |
| <u>      </u> Oxidized Rhizospheres on Living Roots (C3) |   |
| <u>      </u> Presence of Reduced Iron (C4)              |   |
| <u>      </u> Recent Iron Reduction in Tilled Soils (C6) |   |
| <u>      </u> Thin Muck Surface (C7)                     |   |
| <u>      </u> Other (Explain in Remarks)                 |   |

|  |                                |                                   |           |
|--|--------------------------------|-----------------------------------|-----------|
| <b>Field Observations:</b>                         |                                | <b>Wetland Hydrology Present?</b> | <u>No</u> |
| Surface Water Present?                             | <u>No</u> Depth (inches) _____ |                                   |           |
| Water Table Present?                               | <u>No</u> Depth (inches) _____ |                                   |           |
| Saturation Present?<br>(includes capillary fringe) | <u>No</u> Depth (inches) _____ |                                   |           |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
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**VEGETATION** - Use scientific names of plants.

Sampling Point: u-146n37w12-a1

|   | Absolute % Cover | Dominant Species? | Indicator Status |   |  |
|---|------------------|-------------------|------------------|---|--|
| <b>Tree Stratum</b> (Plot Size: <u>30</u> )                                       |                  |                   |                  |   |  |
| 1. <u>Acer saccharum</u>  | <u>40.00</u>     | <u>Yes</u>        | <u>UPL</u>       | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)   |  |
| 2. <u>Tilia americana</u>   | <u>20.00</u>     | <u>Yes</u>        | <u>FACU</u>      |   |  |
| 3. <u>Betula papyrifera</u>   | <u>10.00</u>     | <u>No</u>         | <u>FACU</u>      |   |  |
| 4. _____  | _____            | _____             | _____            |   |  |
| 5. _____  | _____            | _____             | _____            |   |  |
| 6. _____  | _____            | _____             | _____            |   |  |
| 7. _____  | _____            | _____             | _____            |   |  |
| <u>70</u> = Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <span style="float:right">Multiply by:</span><br>OBL species <u>0.00</u> x 1 <u>0</u><br>FACW species <u>0.00</u> x 2 <u>0</u><br>FACU species <u>120.00</u> x 3 <u>480</u><br>UPL species <u>55.00</u> x 4 <u>275</u><br>Column Totals <u>185</u> (A) <u>785</u> (B)<br>Prevalence Index = B/A = <u>4.2432432...</u> |  |
| <b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )                              |                  |                   |                  |   |  |
| 1. <u>Corylus cornuta</u>   | <u>15</u>        | _____             | <u>UPL</u>       |   |  |
| 2. _____  | _____            | _____             | _____            |   |  |
| 3. _____  | _____            | _____             | _____            |   |  |
| 4. _____  | _____            | _____             | _____            |   |  |
| 5. _____  | _____            | _____             | _____            |   |  |
| <u>15</u> = Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br>_____ 1 - Rapid Test for Hydrophytic Vegetation<br>no _____ 2 - Dominance Test is > 50%<br>no _____ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup><br>_____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)   |  |
| <b>Herb Stratum</b> (Plot Size: <u>5</u> )  |                  |                   |                  |   |  |
| 1. <u>Carex woodii</u>  | <u>50.00</u>     | <u>Yes</u>        | _____            |   |  |
| 2. <u>Eurybia macrophylla</u>   | <u>40.00</u>     | <u>Yes</u>        | <u>FACU</u>      |   |  |
| 3. <u>Plantago major</u>  | <u>10.00</u>     | <u>No</u>         | <u>FAC</u>       |   |  |
| 4. _____  | _____            | _____             | _____            |   |  |
| 5. _____  | _____            | _____             | _____            |   |  |
| <u>100</u> = Total Cover  |                  |                   |                  | <b>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</b><br>_____<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |  |
| <b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )                                 |                  |                   |                  |   |  |
| 1. _____  | _____            | _____             | _____            |   |  |
| 2. _____  | _____            | _____             | _____            |   |  |
| 3. _____  | _____            | _____             | _____            |   |  |
| 4. _____  | _____            | _____             | _____            |   |  |
| <u>0</u> = Total Cover  |                  |                   |                  |   | <b>Definitions of Vegetation Strata:</b><br><b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.<br><b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><b>Woody vines</b> - All woody vines greater than 3.28 ft in height. |
| <b>Hydrophytic Vegetation Present?</b> <span style="float:right"><u>No</u></span> |                  |                   |                  |   |  |

Remarks: (include photo numbers here or on a separate sheet.)

